Signal Relay--TSC/T4109

Feature

1. **Low profile size: 12.3(L)x7.4(W)x10.0(H)mm**
2. **Max Switching Capacity: 1A/120VAC**
3. **Environmental friendly product**
4. **Terminal Type: PCB**

Typical applications

◆**Telecomunications**

◆**Appliances** ◆**Office Equipment**

Reference Cross: SYS JRC-23F TSC G5V HY

Specifications

◆ Contact Ratings

Number of poles		**1 Pole**	
Arrangement	1 Form C		
Initial contact resistance, max.(by voltage drop 6VDC/1A)	50mΩ		
Contact material	Silver alloy		
Rating (resistive load)	Nominal switching capacity	1A@120VAC/24 VDC	
	Max. switching power	120VA /24W	
	Max. switching voltage	120VAC	
	Max. switching current	1A	
Expected life (min.operations)	Mechanical (at 300cpm)	5×10^6	
	Electrical (resistive load)	1×10^5	

◆ Coil data

1、Sensitive coil				
Rated voltage (VDC)	5	9	12	24
Rated current (mA)	30	16.7	12.5	6.25
Coil resistance (Ω)±10%	166	540	960	3840
Must operate voltage	75% max. of rated voltage			
Must release voltage	5% min. of rated voltage			
Max voltage	130% of rated voltage			
Power consumption	0.15W	0.15W	0.15W	0.15W
2、Standard coil				
Rated voltage (VDC)	5	9	12	24
Rated current (mA)	60	33.3	25	12.5
Coil resistance (Ω)±10%	83	270	480	1920
Must operate voltage	75% max. of rated voltage			
Must release voltage	5% min. of rated voltage			
Max voltage	130% of rated voltage			
Power consumption	0.3W	0.3W	0.3W	0.3W

◆ Characteristics

Item		
Initial insulation resistance	Min.100 MΩ （at 500VDC）	

Dielectric strength	Between open contacts	400VAC 1 Min.
	Between coil and contacts	1000VAC 1 Min.
Operate time (at nominal voltage)		5ms
Release time (at nominal voltage)		3ms
Temperature rise (at nominal voltage)		30K max. (at 20℃)
Shock resistance	Functional	100 m/ S^2
	Destructive	500 m/ S^2
Vibration resistance	Functional	10 to 55Hz, at double amplitude 1.5mm
	Destructive	
Ambient temperature		-40℃～+85℃
Humidity		45% to 85% RH
Termination		PCB
Unit weight		Approx. 3g

Ordering information

T4109 — X — 1 X X X

1 2 3 4 5

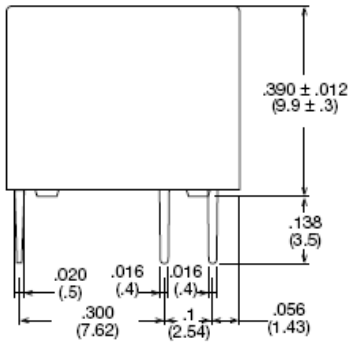
1. **Product type: T4109**
2. **Enclosure**
   SH—Sealed SS—Flux-tight
3. **Coil Voltage**
   05—5VDC 12—12VDC
4. **Coil power**
   L—Sensitive(0.15W) D—Standard(0.3W)
5. **Contact arrangement**
   M—1 form A Blank—1 form C

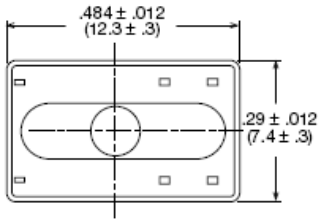
Note: Any special requests, please contact us.

Outline Dimensions, PCB Layout and Wiring Diagram

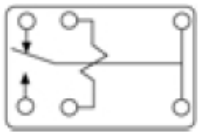
(Dimensions are in millimeters , to convert millimeters to inches divide by 25.4)

Outline Dimensions

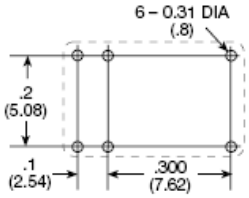




Wiring Diagram (Bottom View)

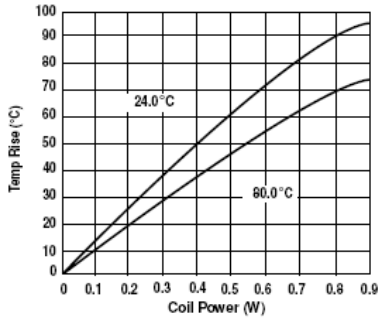


PC Board Layout (Bottom View)

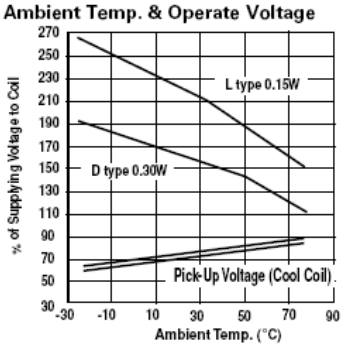


Reference data

Coil Temperature Rise



Ambient Temp. & Operate Voltage



Load Limit Curve